

FIG.1

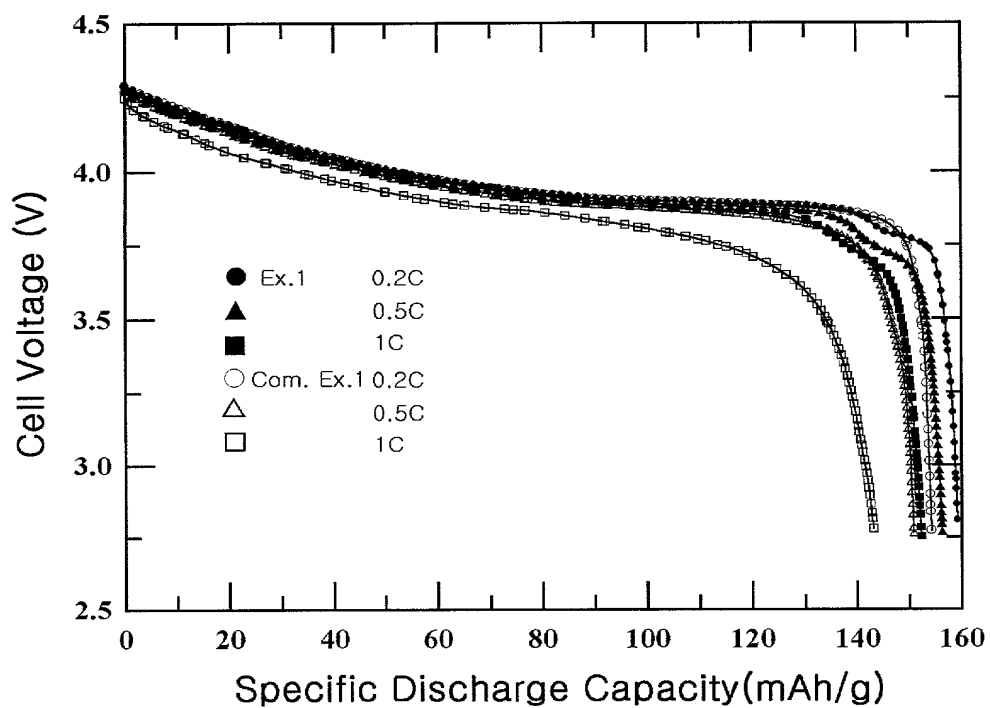


FIG.2

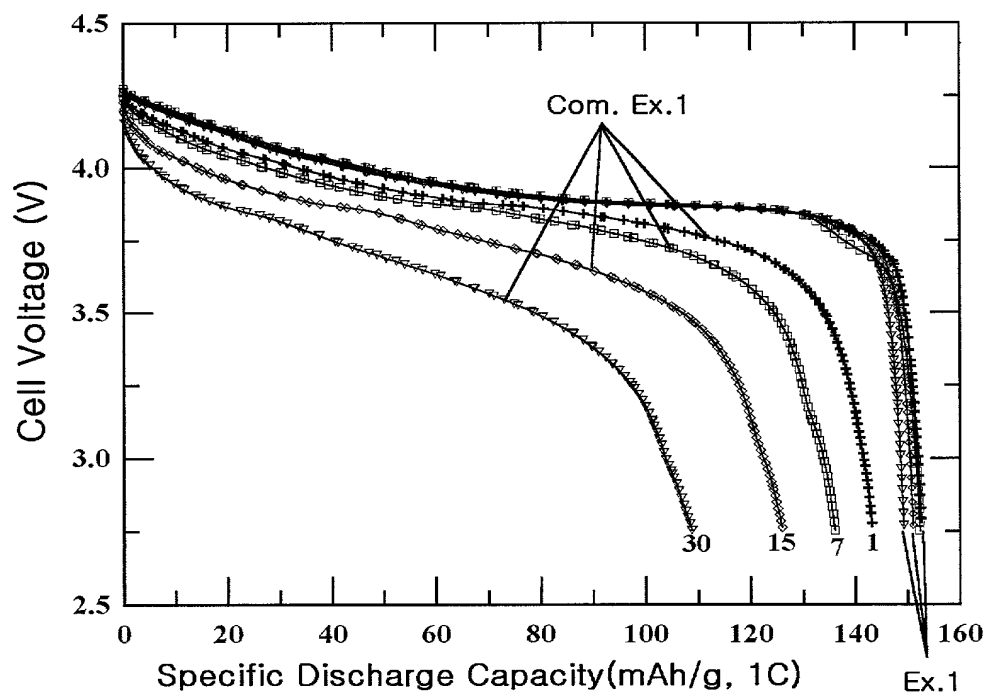


FIG.3A

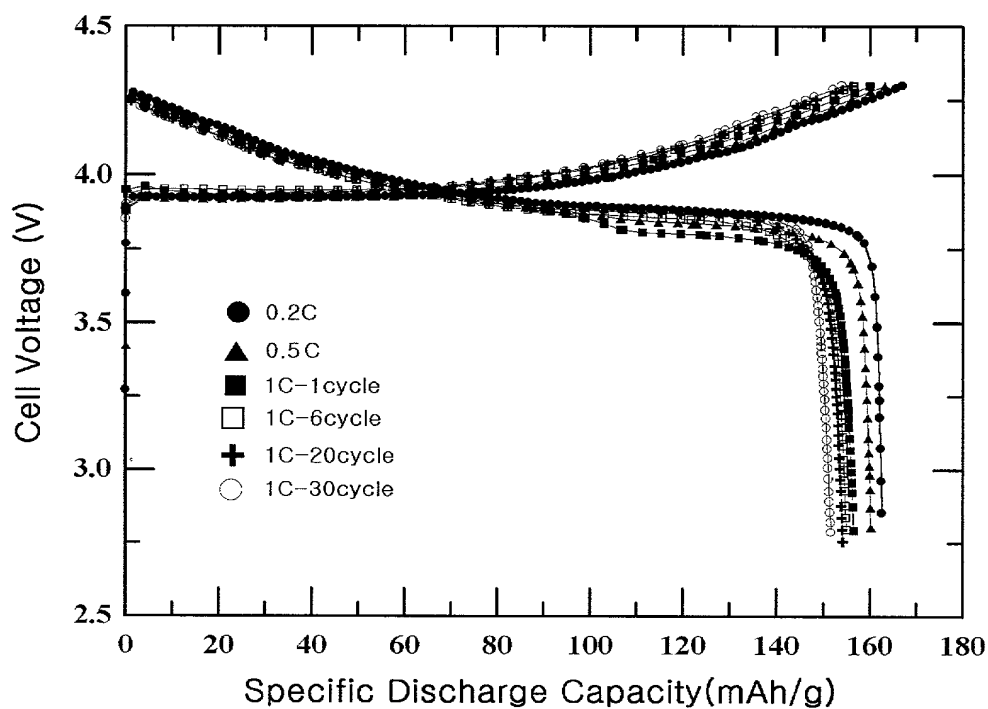


FIG.3B

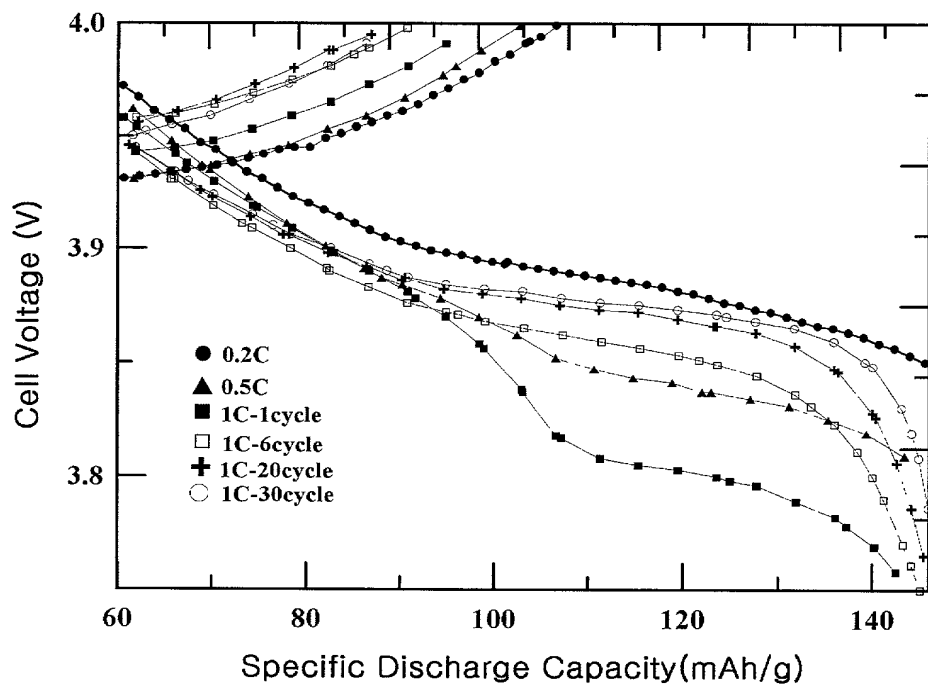


FIG.4

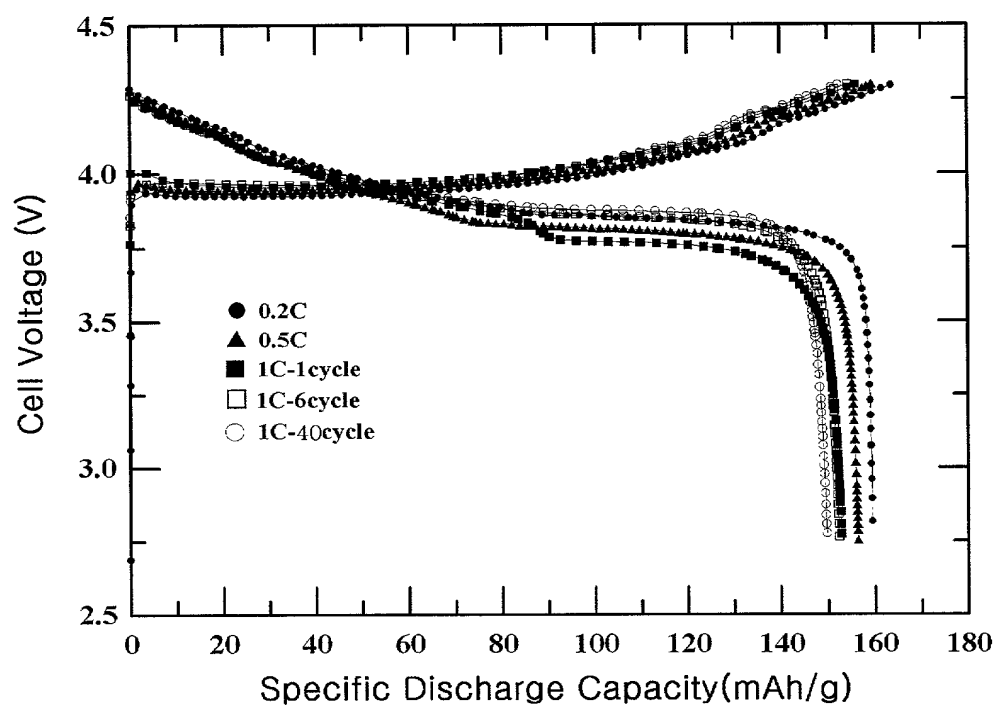


FIG.5

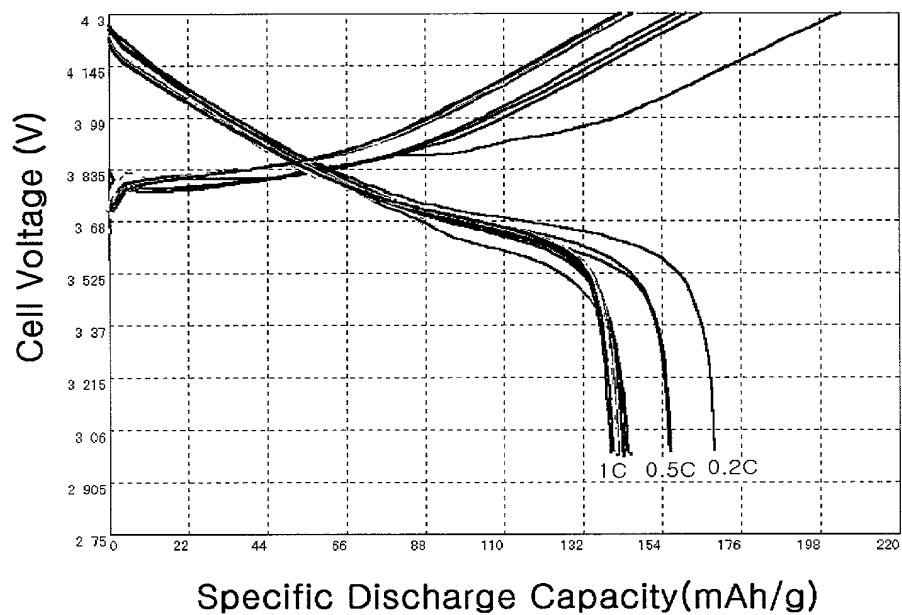


FIG.6

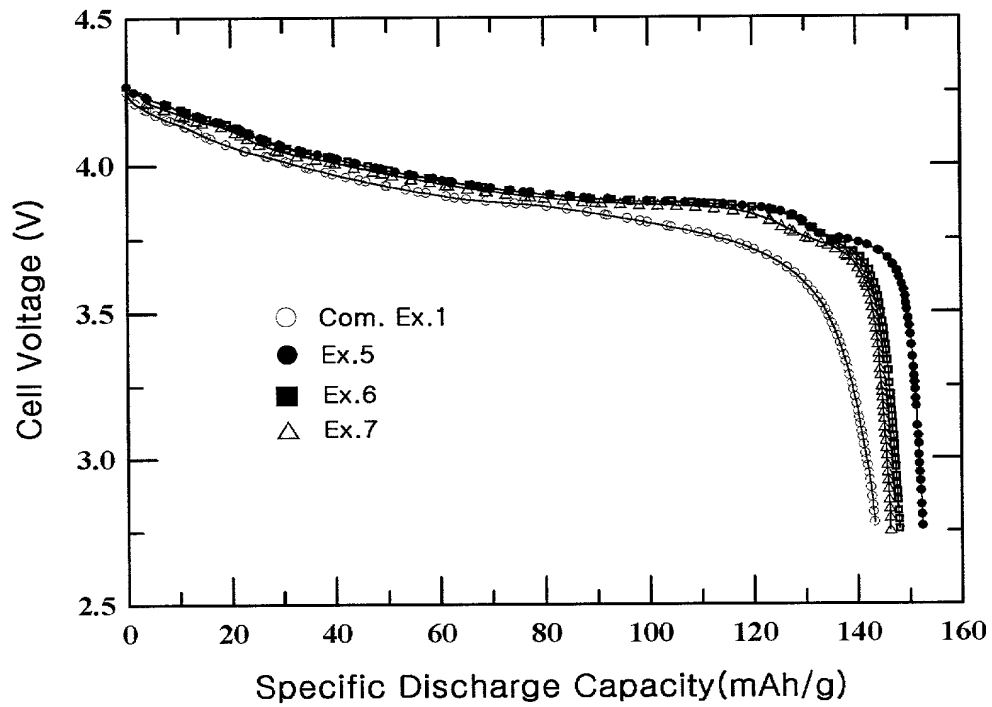


FIG.7

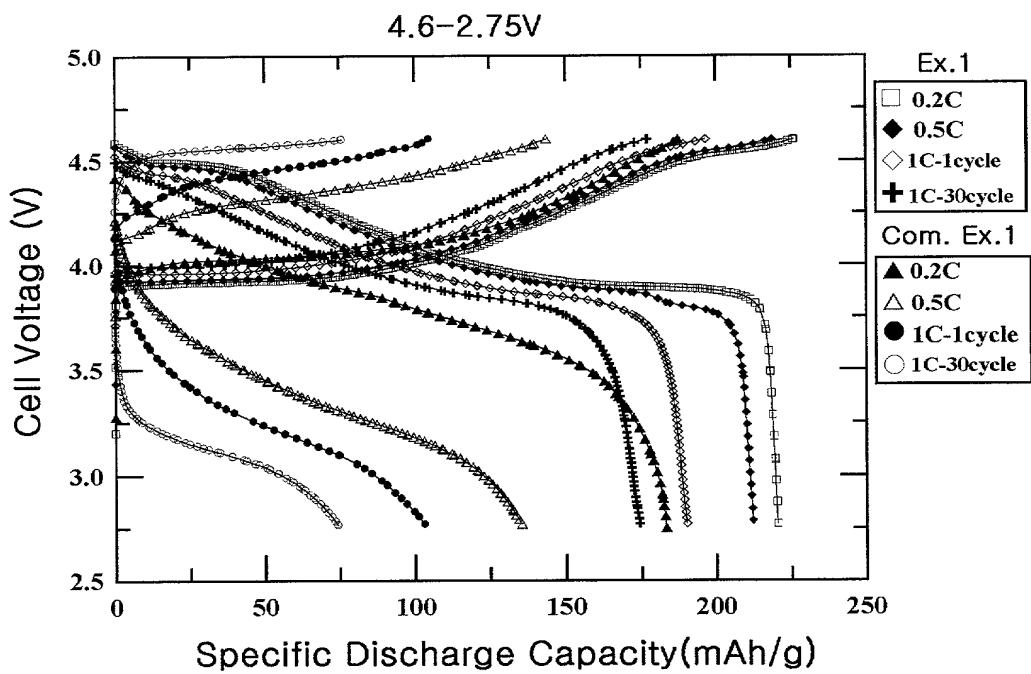


FIG.8

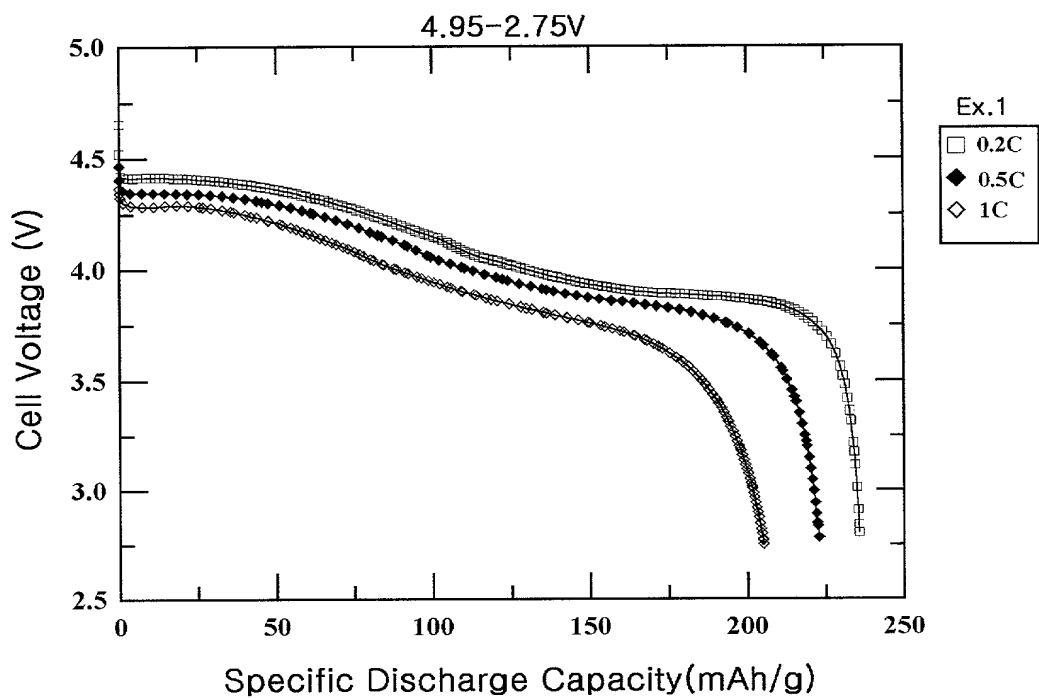


FIG.9

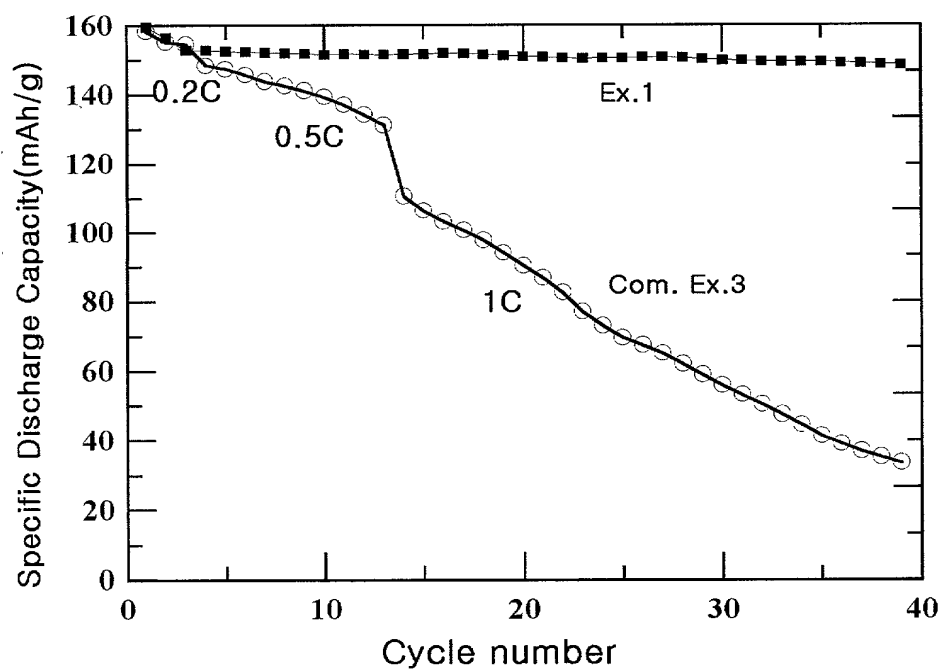


FIG.10

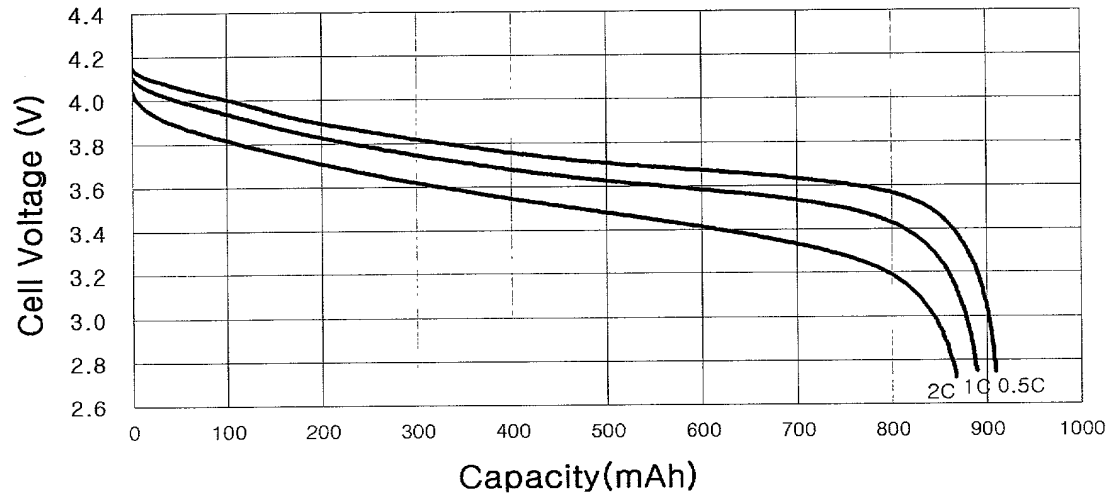


FIG.11A



FIG.11B



FIG.11C

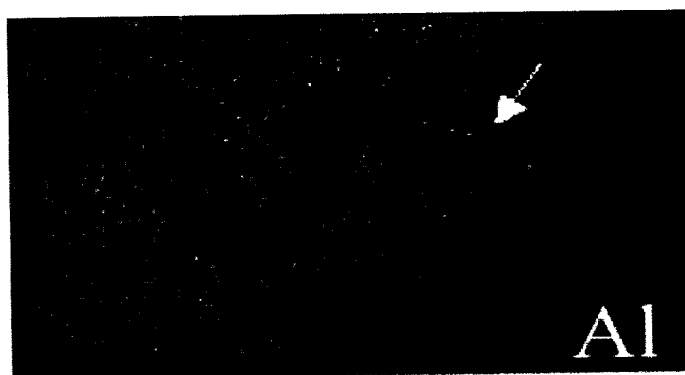


FIG.11D



FIG.11E

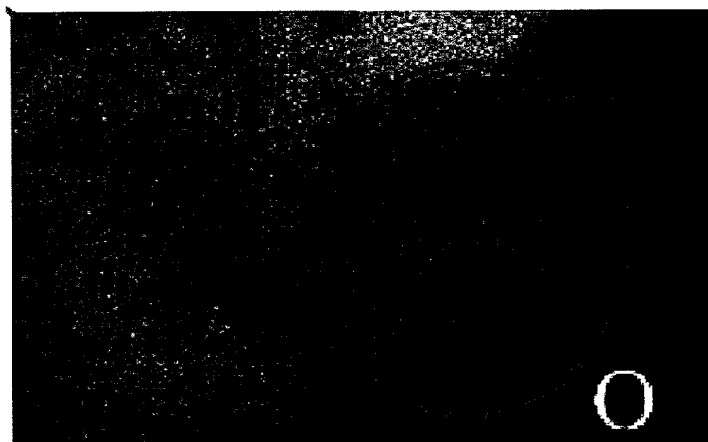


FIG.12

Depth (Å)	O	Al	P	Co (at.%)	
0	74.57	5.91	4.75	14.77	
24.2	74.69	4.6	4.61	16.1	
37.6	74.05	3.8	3.23	18.92	
75.2	74.69	2.35	3	24.96	→ Solid-solution compound of surface -treatment layer
112.8	74.59	1.01	1.05	28.35	
150.4	74.85	0.95	0.65	28.55	
188	72.35	0.32	0.23	27.1	
225.6	72.89	0.03	0.05	27.03	
263.2	65.59	0.01	0	33.76	→ CoO ₂
300.8	65.71	0.01	0	34.49	
338.4	65.23	0.01	0	35.35	
376	65.16	0.01	0	35.5	

FIG.13A

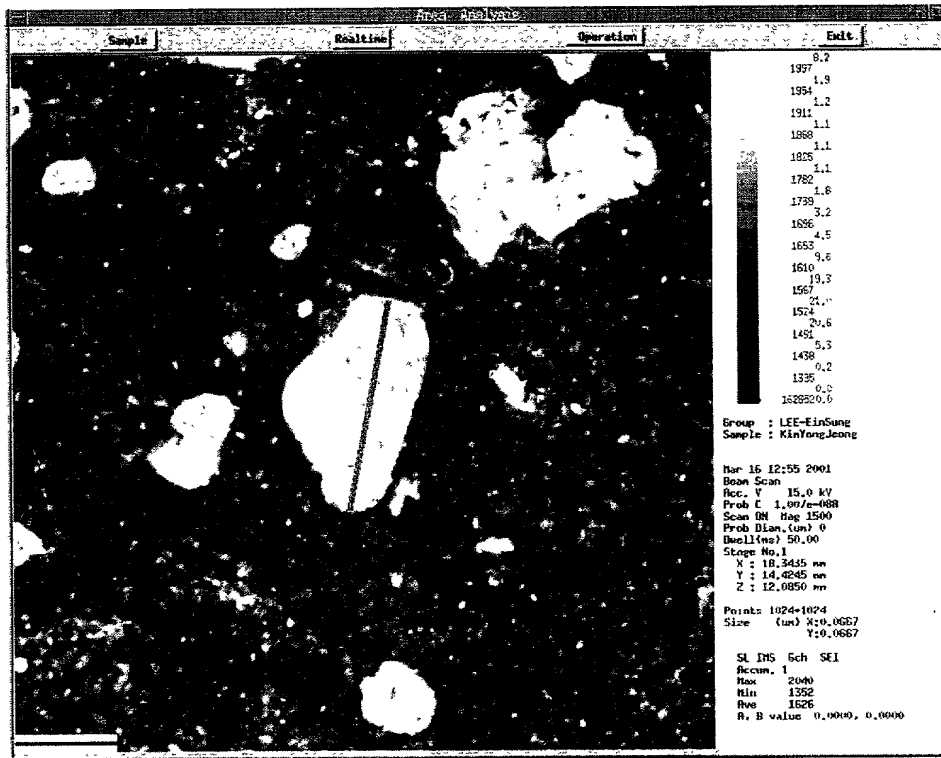


FIG.13B

Depth(μm)	Co	P	Al
0	50.98	24.41	24.60
1	99.88	0.07	0.05
2	100	0	0
3	100	0	0
4	100	0	0
5	100	0	0
6	100	0	0
7	100	0	0
8	99.96	0.02	0.02
9	69.38	15.03	15.58

→ Al and P are not detected

FIG.14

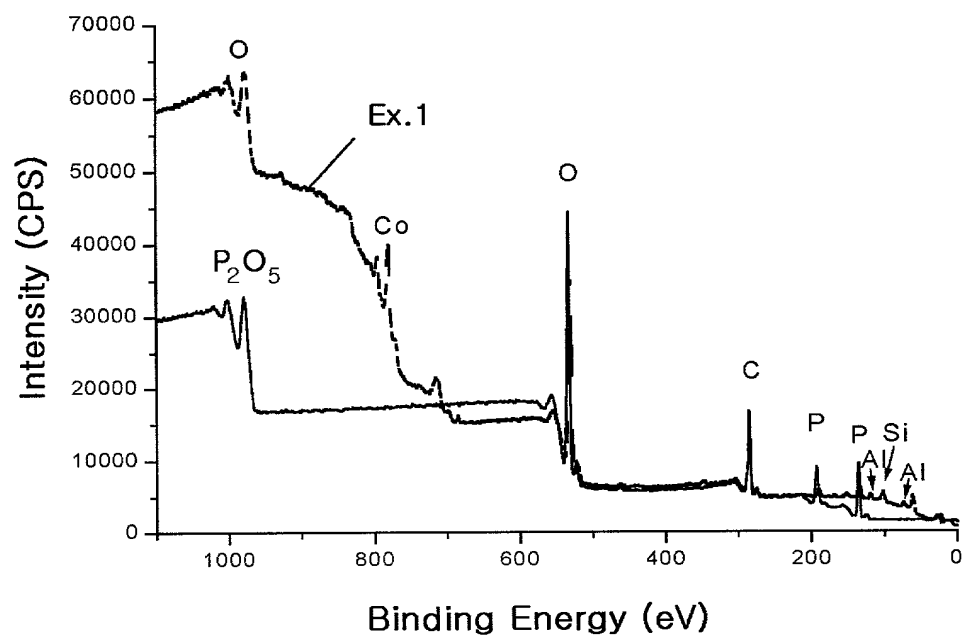


FIG.15A

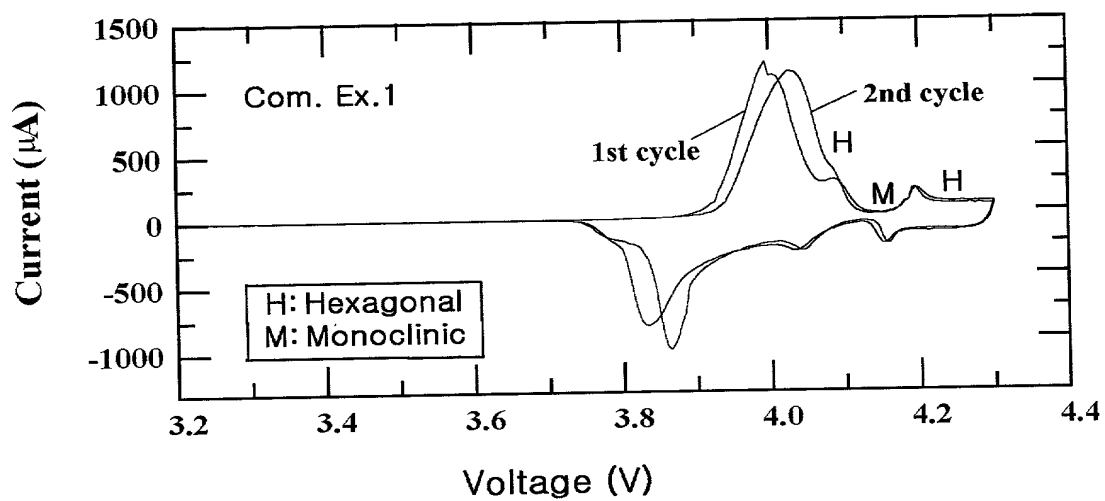


FIG.15B

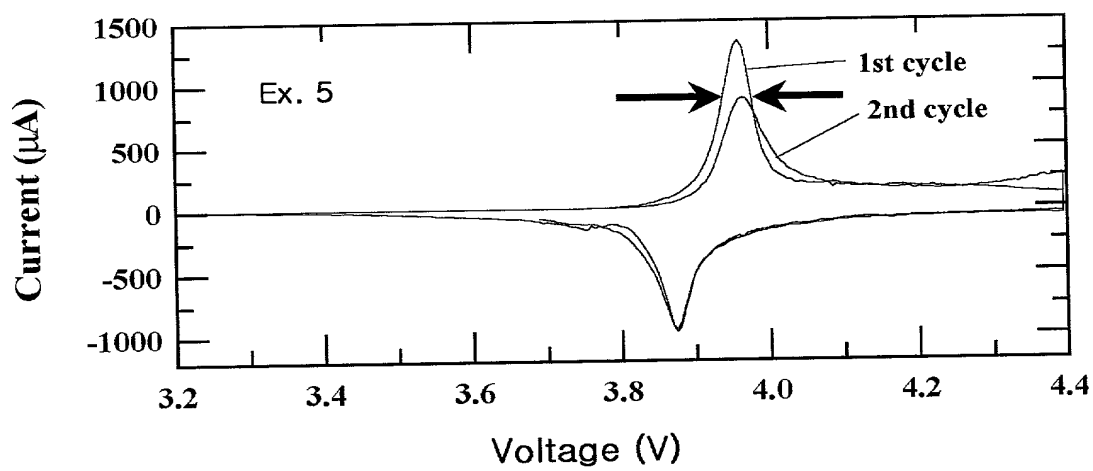


FIG.16

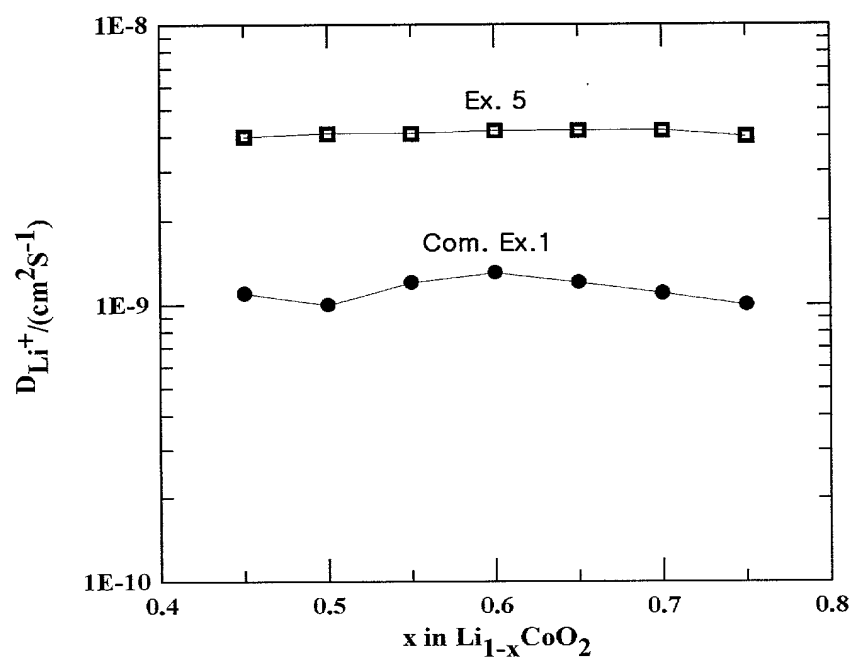


FIG.17A

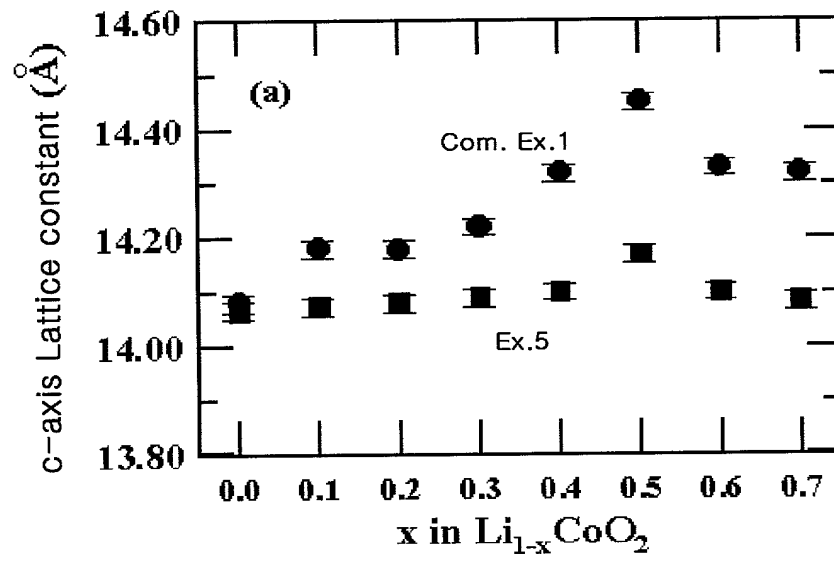


FIG.17B

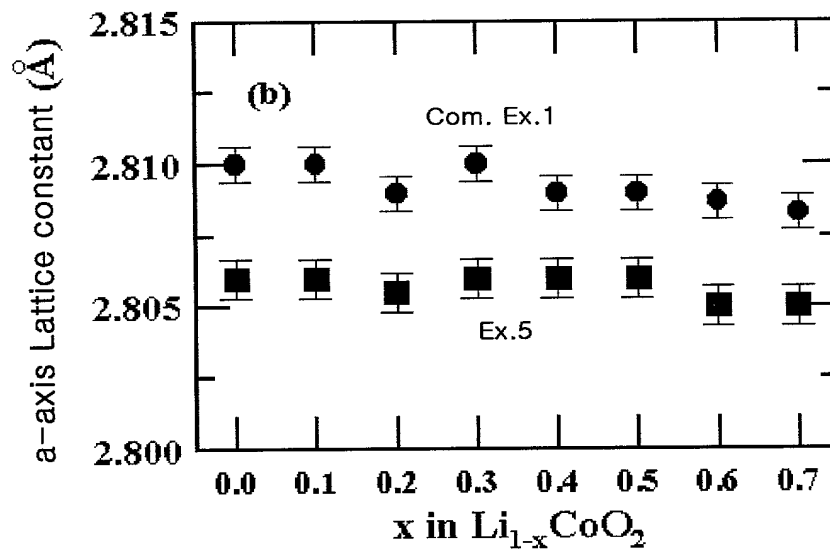


FIG.18

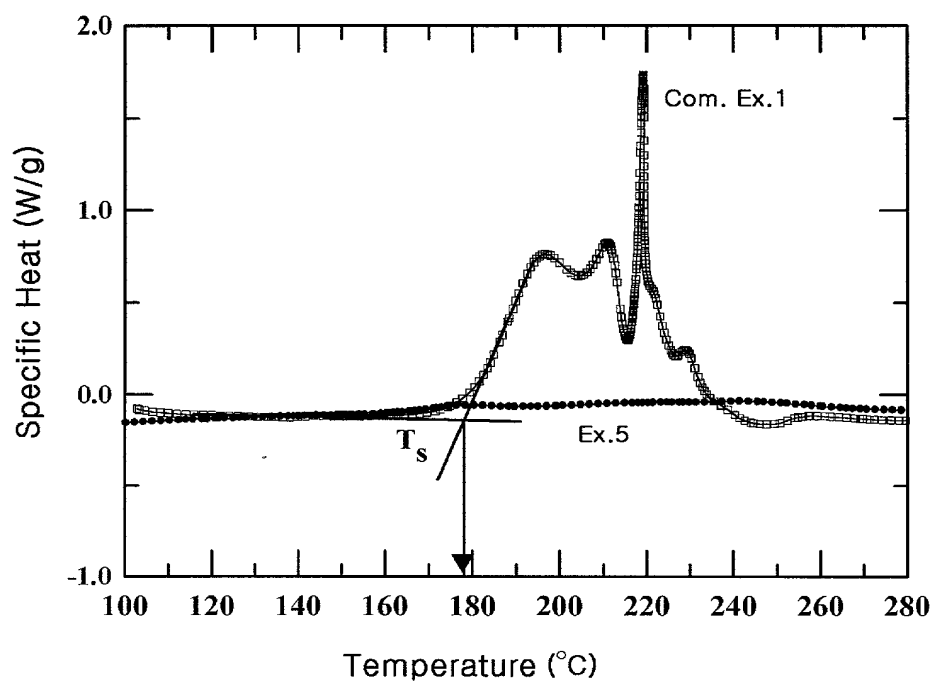


FIG.19

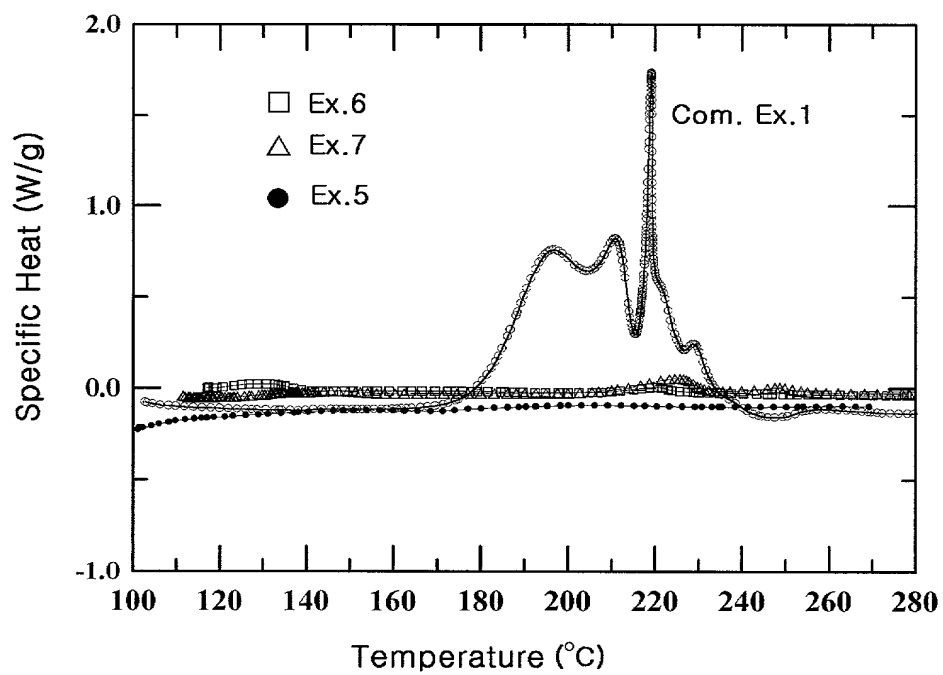


FIG.20

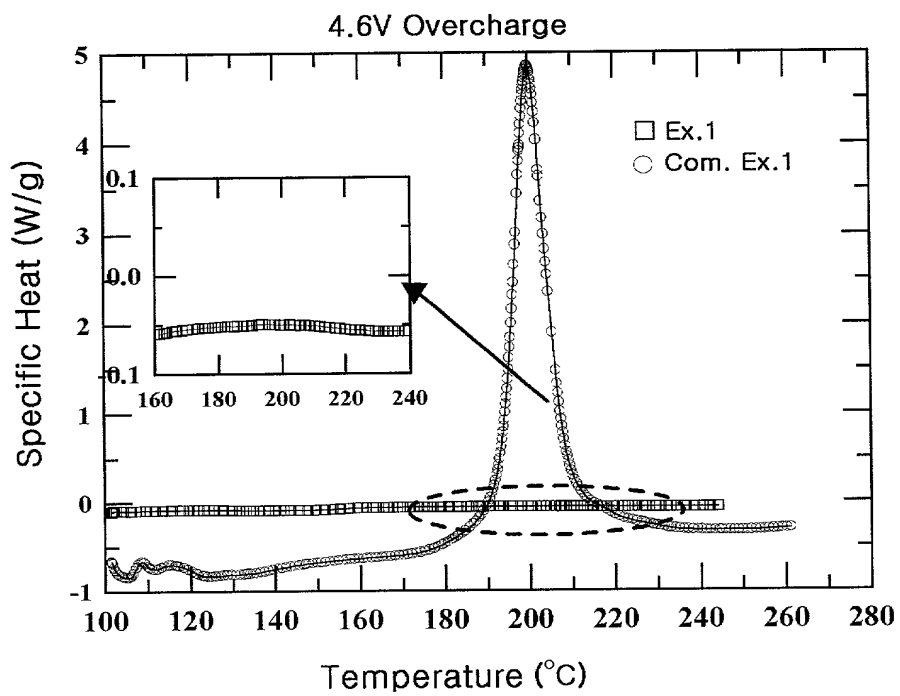


FIG.21

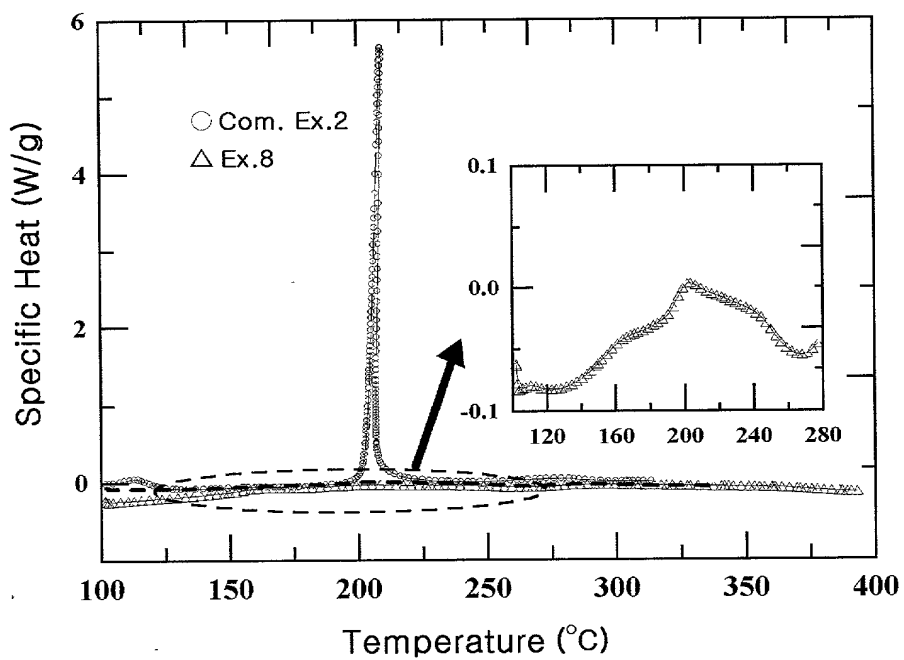


FIG.22

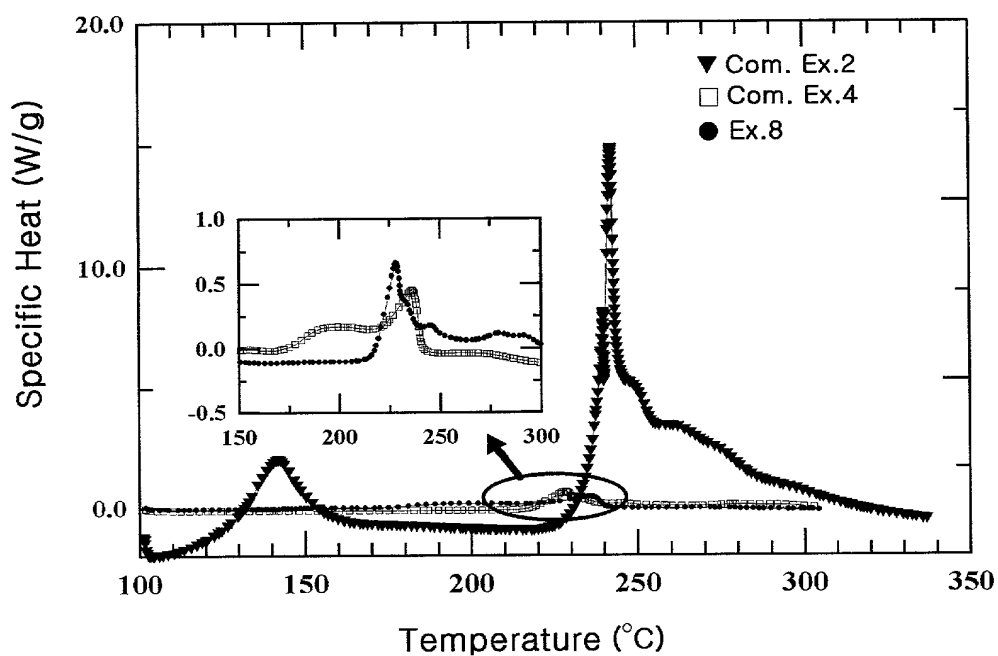


FIG.23

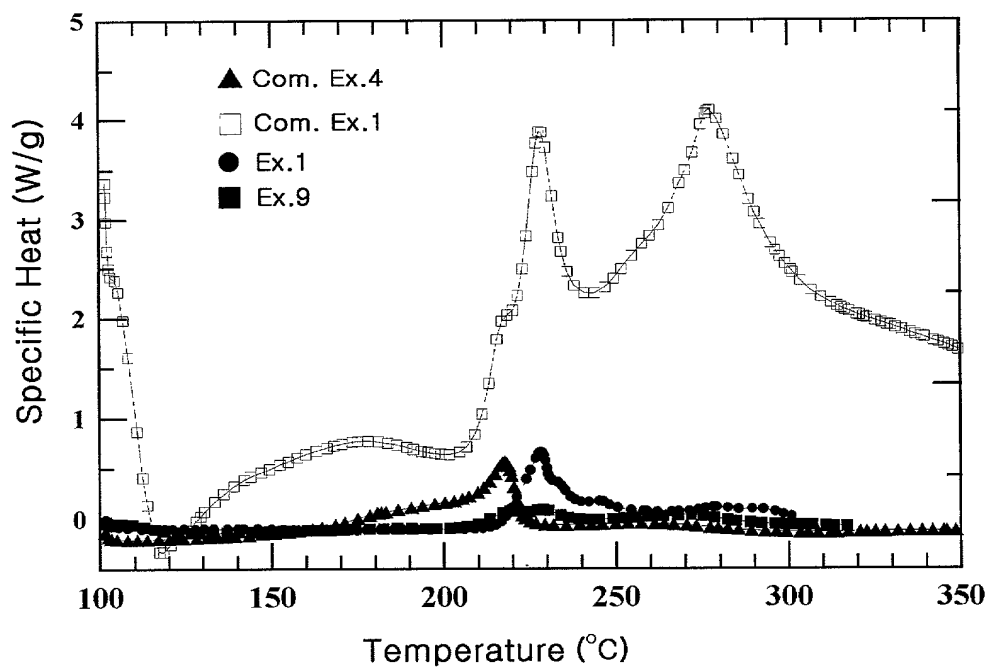


FIG.24

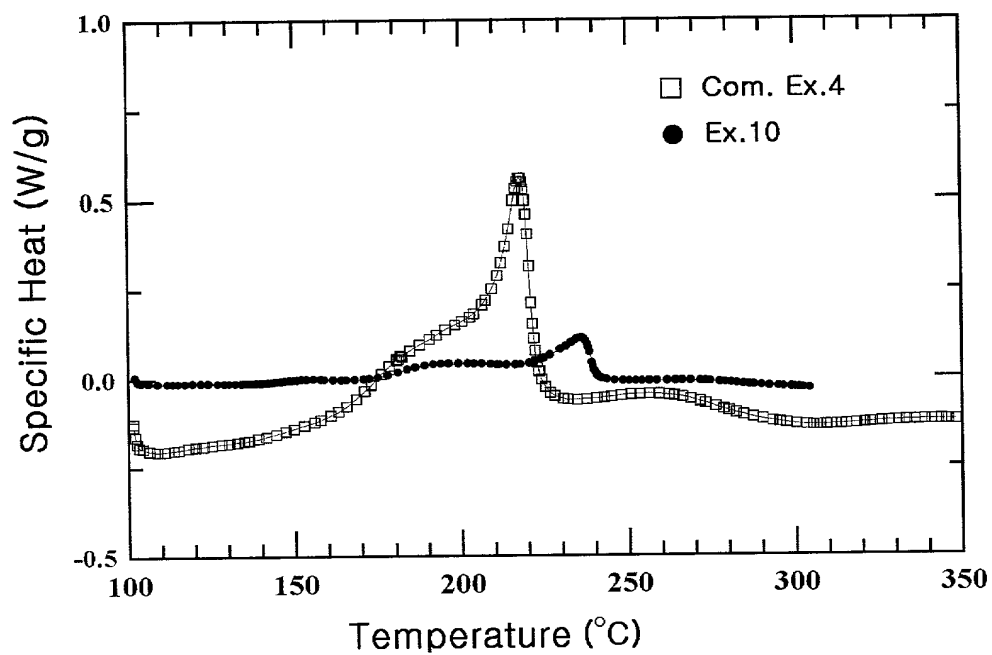


FIG.25

4.6V Overcharge

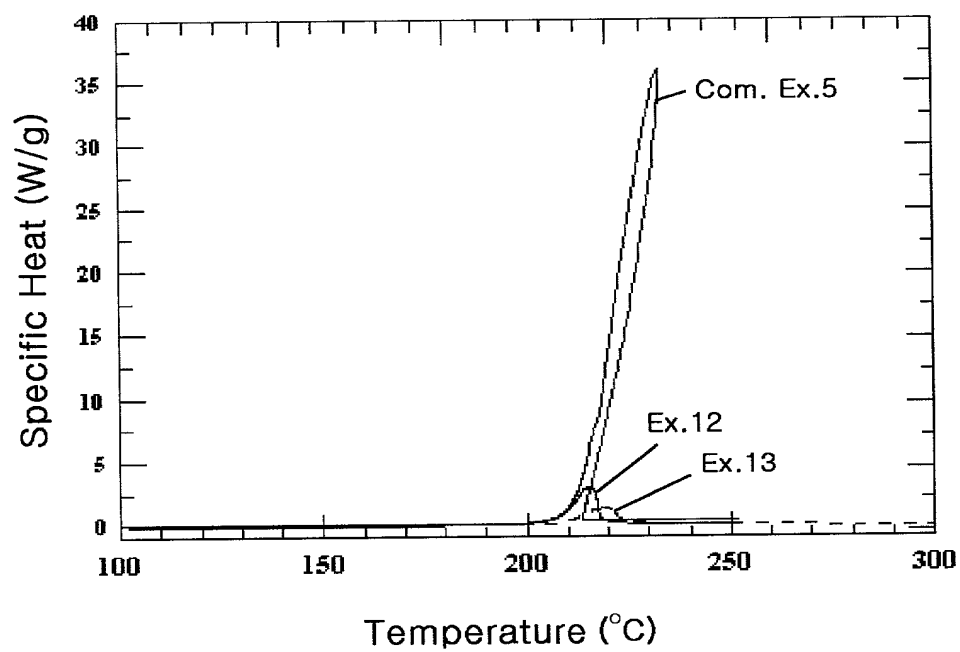


FIG.26

